

EFFICIENT CONNECTION AND MEMORY MANAGEMENT FOR MESSAGE PASSING ON A SINGLE SMP OR A CLUSTER OF SMPs

Abstract

A method for efficient connection establishment and use for message passing on a single symmetric multiprocessor node or on a cluster of symmetric multiprocessor nodes is provided. Further, a method of memory management for message passing on a single symmetric multiprocessor node or on a cluster of symmetric multiprocessor nodes is provided. The invention utilizes dynamic memory allocation for both memory needed for messages and acknowledgment memory segments. Moreover, a method for reclaiming memory used to send a message or piece thereof is provided.